

## AMENDMENTS TO CLAIMS

1. (currently amended) A surgical microscope system for operating a variable focus surgical microscope over a dental chair of the type having a hinge for rotating the patient position near the patient's hips, comprising:

a substantially vertical microscope support arm adapted for fitment on a dental chair adapted for vertical motion in concert with chair vertical motion;

a horizontally movable microscope positioning arm having a plurality of hinged links, connected to said vertical support arm with a clamp allowing vertical orientation along the length of said vertical support arm, and

a microscope coupler for connecting said variable focus microscope to said positioning arm; whereby the microscope system is supported for vertical motion and location said vertical support arm and said positioning arm;

whereby motion of a portion of the chair is used to focus the microscope.

2. (currently amended) The system of claim 1 further including:

a terminal link with a repositionable axis of rotation orthogonal to said vertical support proximate said microscope, whereby said microscope support may be inclined at any of several discreet pre-selected angles [at an angle] with respect to said vertical support.

3. (currently amended) A method of using a surgical microscope with a chair having a movable chair bottom and having a rotatable chair back comprising the steps of:

mounting a variable focus microscope on a first end of a substantially horizontal positioning arm; connecting with a movable clamp the horizontal positioning arm to the second end of said horizontal positioning arm to a vertical pole, said vertical pole connected to a dental chair bottom; moving the chair bottom to position the microscope at a location comfortable for the microscope user; rotating the seat back about a pivot point bringing the subject into approximate focus of said microscope; manipulating the variable focus of said microscope to refine the focus to suit the user.